## Index of Claims

Application No.

10532814

Examiner

Art Unit

√ Rejected — +

- (Through numeral)
Cancelled
+ Restricted

N Non-Elected
I Interference

A Appeal
O Objected

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| Cla      |  | _             | _      | _        | τ- | - 1       | )a | te |          | _ | _  | _        | 7        | ┥            |          |          |
| Final    | 1 3 4 5 6 7  |               |        |          |    |           |    |    |          |   |    |          |          |              |          |          |
|          |  | -             | H      | 1        | -  | t         | 1  | _  | 1        |   |    |          |          | İ            |          |          |
|          | )∾   |               |        | I        |    | I         |    |    | $\Box$   |   |    |          | _        | 1            | ╝        |          |
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|          | 5  | <b>!</b> —    | L      | 4        |    | ╀         | 4  | _  | 4        |   | ╀  | -        |          | +            |          |          |
|          | 7  | -             | ┞      | +        | _  | ╁         | -  | H  | +        | _ | ╁  | $\dashv$ | _        | +            | $\dashv$ |          |
|          | 8  | <del> </del>  | t      | 7        |    | t         | -  | H  | 1        |   | t  |          |          | 1            | ٦        |          |
|          | 8<br>9<br>10<br>11<br>12<br>14                                       | ✝             | T      | 1        | _  | T         |    | r  | ٦        |   | T  |          |          | T            |          |          |
|          | 10   |               |        | 1        |    | Ι         |    |    |          |   | Ι  |          |          |              |          |          |
|          | $\Box$   |               |        | _        |    | 1         |    | L  | _        |   | 1  |          | _        | 4            |          |          |
|          | 12   | 4_            | 1      | 4        |    | 1         |    | L  |          | - | ļ. | _        | L        | 4            | _        |          |
| <b></b>  | 13   | ┼             | ╀      | -        | _  | ╀         | _  | H  | 4        | - | ╀  |          | _        | +            | _        |          |
|          | 114  | ┼-            | t      | $\dashv$ | _  | $^{+}$    |    | ┞  | -        | - | t  | _        | -        | +            |          |          |
| $\vdash$ | 14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25 | ╁╴            | t      | ┪        |    | $\dagger$ |    | t  | _        | H | 1  | _        | r        | 7            |          | 1        |
| -        | 10   | †-            | t      | 7        |    | †         | _  | t  | _        | Γ | T  |          |          |              |          | ]        |
|          | 18   |               |        |          |    | 1         | _  |    |          |   | I  |          |          |              |          |          |
|          | 19   | T             | Ţ      |          |    | Ţ         |    | ŀ  |          | ! | 1  | _        | <u>!</u> | !            |          | !        |
| <u> </u> | 120  | 1             | 1      |          | L  | 4         |    | 1  | _        | - | 4  |          | L        | 4            |          | ł        |
| ļ        | 131  | ╀             | 1      | _        | L  | 4         |    | ╀  |          | ┞ | +  |          | ┞        |              |          | -        |
| <u> </u> | 142  | ╁             | ╀      | -        | ┝  | +         | _  | ╁  |          | ╁ | +  | _        | ┞        | -            | _        | 1        |
| -        | 143  | 4-            | ╁      | -        | ┝  | +         | _  | t  | -        | ╁ | +  |          | t        |              |          | 1        |
|          | 25   | <b>†</b>      | t      |          | T  | 1         | _  | t  | _        | T | 1  |          | T        |              |          | ]        |
| -        | 7 26   | T             | 1      |          |    |           |    | 1  |          |   | I  |          | I        |              |          | ]        |
|          | 27   | $\perp$       | 1      |          | L  | 4         |    | 1  | _        | L | 1  | _        | 1        |              | _        |          |
|          | 27<br>28<br>29<br>30   | ╀             | 4      |          | L  | 4         | _  | 4  |          | ╄ | 4  | _        | ╀        | _            | ┝        | -        |
| <u> </u> | 29   | 1-            | +      |          | ┞  | -         | _  | ╁  |          | ╀ | +  | _        | ╀        | _            | ┝        | ┨        |
| <b>—</b> | 31   | ╁╌            | 1      | _        | ╁  | 1         | _  | †  | <u> </u> | ╁ | ┪  | _        | t        |              | 一        | 1        |
| -        | 32   | +             | †      |          | t  | 1         |    | †  | _        | t | 1  | _        | t        |              | Г        | 1        |
| -        | 32<br>33   | +             | 1      | _        | T  | 1         |    | 1  | _        | 1 | J  | Ξ        | 1        |              |          | ]        |
|          | 34   |               | 1      | _        | I  |           |    | I  |          | I |    | _        | 1        |              | L        | 1        |
|          | 35   |               | 4      |          | 1  | _         |    | 4  |          | 1 | _  | _        | 4        | _            | ┞        | -        |
| <b> </b> | 36   | +             | 4      | _        | ╀  | 4         | -  | -  | _        | + | 4  | -        | +        | _            | ┨        | +        |
| -        | 37   | +             | 4      |          | ╀  | 긕         | -  | +  | _        | + | -  | ┝        | +        | _            | ╁        | ┨        |
| -        | 39   | +             | 1      |          | t  |           | Н  | 1  | -        | + | -  | Т        | †        |              | Τ        | 1        |
|          | 40   | $\overline{}$ | 7      | _        | †  |           | T  | 7  | _        | † |    | Ī        | 1        | _            | İ        | 1        |
|          | 41   | Т             | _      | _        | Ī  | _         |    |    |          | 1 |    |          | 1        |              |          | ]        |
|          | 42   | 2             | $\Box$ |          | I  |           | Ĺ  | _  |          | 1 |    | Ĺ        | _[       |              | 1        | 4        |
| <u></u>  | 43   | 4             | _      | _        | 4  |           | L  |    | _        | 4 |    | 1        | 4        |              | ╀        | 4        |
| -        | 44   | 4             | 4      | -        | +  | _         | 1  | _  | H        | + |    | ┞        | 4        |              | ╁        | $\dashv$ |
|          | 45   | +             | _      | $\vdash$ | +  |           | ┞  | -  | ┝        | + |    | ╁        | -1       | -            | ╁        | $\dashv$ |
| <b> </b> | 4  |               | -      | ┝        | +  |           | ┝  | _  | ┝        | + | -  | ╁        | -        | $\vdash$     | ╁        | 1        |
|          | 48   |               | -      | ┝        | +  |           | t  | -  | H        | + |    | t        | ٦        | <del>)</del> | †        | ┪        |
| -        | 49   | 5             |        | H        | †  |           | t  | -  | T        | 7 | _  | T        | _        |              | 1        | J        |
|          | 50   | 5             | _      | r        | †  |           | T  | _  | Γ        | 7 |    | T        |          |              | Τ        |          |

| Cla        | Date      |           |          |          |          |  |   |   |          |        |    |            |    |          |
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|            |           | Г         | Т        |          | Γ        | T  |   | Γ | Γ        | I      |    |            | ۱  |          |
| Final      | Original  | 1         |          | -        | ٠.       |  |   |   |          |        |    |            |    |          |
|            | 51        |           |          | 1        |          |  | I |   | L        | L      | 4  |            | _  | 4        |
|            | ,52<br>58 |           | L        | 1        | _        | L  | 1 | _ | L        | 1      | 4  |            | L  | ┨        |
|            | 58        | L         | 1        | 4        | _        | _  | + |   | _        | ╀      | -1 |            | -  | 4        |
|            | 54        | _         | ╀        | 4        | _        | Ļ  | 4 |   | -        | +      | +  | _          | ⊢  | $\dashv$ |
| <b> </b>   | 55        | -         | ╀        | 4        | _        | ┞  | + |   | ┝        | +      | ┥  |            | ┢  | ┪        |
| <u> </u>   | 56        | ┞         | ╀        | ┥        |          | ╀╌   | + | _ | ╁╴       | ╁      | -  | _          | ╁  | 1        |
| ├          | 57<br>58  | ╀         | ╁        | +        |          | ╁  | + |   | ╁        | †      | ┪  |            | 1  | ٦        |
| -          | 59        | ╁         | t        | 1        | _        | t  | † | _ | t        | †      |    |            | 1_ |          |
|            | 60        | t         | +        | 1        | _        | T  | 7 |   | Τ        | T      |    |            | I  |          |
| <b></b>    | 61        | T         | +        | 7        |          | T  | 1 | - | L        | Ι      |    |            | 1  |          |
|            | 62        | Ţ         |          |          |          | Ι  | I |   | L        | 1      |    | _          | Ļ  |          |
|            | 63        |           |          |          |          | 1  | _ | _ | 1        | 4      | _  | L          | ╀  | _        |
|            | 64        |           | $\perp$  | _        | _        | ╀  | 4 | _ | ╄        | 4      |    | ┡          | ╀  | 4        |
| Ĺ_         | 65        | ↓_        | 4-       | 4        | _        | +  | 4 | _ | ╀        | +      | _  | ├          | +- | -        |
| <u></u>    | 66        | ╀         | +        | 4        | _        | ╀  | 4 | _ | ╀        | +      |    | $\vdash$   | ╁  | -        |
| ļ          | 67        | ╀         | +        | $\dashv$ | _        | ╀  | - | _ | ╁        | +      | _  | ┢          | ╁  | _        |
| <u> </u>   | 68<br>69  | ╀         | +        | $\dashv$ | $\vdash$ | +  | - | - | +        | +      | _  | ┢          | +  | _        |
| <u></u>    | 70        | ╁         | ÷        | -        |          | Ť  |   | - | Т        | Ť      | _  | ├ <b>-</b> | i  |          |
| -          | 71        | ╁         | ╁        | -        | ┢        | +  | _ | ┢ | 1        | 1      | _  |            |    |          |
| -          | 72        | †         | +        |          |          | 1  |   |   | 1        | I      |    |            |    |          |
|            | 72<br>73  | T         | 1        |          |          | 1  |   |   | 1        | $\Box$ |    | 1_         | 1  | _        |
|            | 74        | I         | I        |          | L        | 1  |   | L | 4        | 4      | _  | 1          | 4  |          |
|            | 75<br>76  | 1         | 4        | _        | 1_       | 4  | _ | L | 4        | 4      |    | ╀          | ╀  |          |
| <u> </u>   | 76        | 4-        | 4        | _        | L        | +  | _ | ┞ | +        | 4      |    | ╀          | ╁  | _        |
| ļ          | 77<br>78  | +         | +        |          | ┞        | +  | _ | ├ | ╁        | -      | _  | +          | ╅  | -        |
| <b>I</b> — | 79        | ╀         | +        |          | ╀        | +  | - | ┢ | ╁        | ┪      | _  | †          | +  | _        |
| -          | 80        | +         | +        | _        | ╁╌       | +  |   | t | 十        |        | _  | T          | 7  | _        |
| -          | 81        | +         | 1        | _        | t        | 1  | _ | T | 1        |        |    | I          |    |          |
| -          | 82        | 1         | 7        | _        | 1        |  |   |   | 1        |        |    | L          | 1  |          |
| -          | 83        | 1         | 1        | _        |          | $\Box$   |   |   | 1        |        | L  | ┸          | 4  |          |
|            | 84        | П         | $\Box$   | _        | Ĺ        | $\rfloor$                                      | _ | L | 4        |        | _  | 4          | 4  |          |
|            | 85        | $\perp$   |          | _        | 1        | 4  |   | 1 | 4        |        | H  | +          | -  |          |
|            | 86        | 4         | 4        | _        | +        | 4  | _ | + | +        |        | -  | ╁          | +  | _        |
|            | 87        | 4         | 4        | _        | ╀        | -  | _ | ╀ | $\dashv$ | _      | ┝  | ╁          | ┪  | -        |
| -          | 88        | +         | -1       |          | ╁        | $\dashv$                                       | _ | ╁ | +        |        | ┢  | 十          | ┪  |          |
| -          | 90        | $\forall$ | $\dashv$ |          | +        | ㅓ  | _ | t | 7        |        | ✝  | †          | ┪  |          |
| -          | 91        | +         | $\dashv$ | _        | +        | -  | _ | † | 7        | _      | Τ  | 1          |    | _        |
| -          | 92        | ; †       | $\dashv$ | _        | t        | 7  | _ | † |          | _      | I  | $\Box$     |    |          |
| -          | 93        |           | _        | _        | 1        |  |   | 1 | $\Box$   |        | L  | $\perp$    |    | L        |
|            | 94        |           |          |          | 1        |  |   | I |          | _      | Ĺ  | 4          | _  | L        |
|            | 95        | 5         |          |          | $\int$   |  | Ĺ | 1 | _        | _      | 1  | 4          |    | L        |
|            | 90        | 5         |          | Ĺ        | 1        |  | L | 1 | 4        |        | 1  | 4          | -  | H        |
|            | 9         |           |          | L        | 4        |  | - | 4 |          | _      | ╀  | +          | _  | ┞        |
| <u> </u>   | 9         | <u>B</u>  |          | -        | +        | <u>.                                    </u>   | 1 | + |          | -      | ╁  | +          |    | H        |
|            | 9         | 틧         |          | $\vdash$ | +        | <u>.                                      </u> | - | + | _        | ┝      | ╁  | +          | _  | t        |
| 1          | 10        | Ю         |          | L        | ┸        | _  | ட |   |          | L      | 1  |            | _  | L        |

| Cli      | Date              |                |    |    |           |   |        |    |   |   |     |        |          | 7  |              |   |
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| Claim    |                   | -              | Г  | ٦  | _         | Ŧ |        | Ť  | Ť |   | T   | ٦      | _        |  | 7            |   |
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| Final    | igi               | l              | l  |    |           | Į |        |    |   |   | 1   | ١      |          |  |              |   |
| u.       | ō                 | l              | l  |    |           | ١ |        | l  | 1 |   | ١   | 1      |          |  |              |   |
|          | 101               | <del> </del> — | t  | -  | ┝         | 1 |        | t  | 1 | _ | t   | 7      |          | T  | 1            |   |
|          | 101<br>102        |                | ╁  | _  | H         | 1 |        | ╁  | ┪ |   | t   | 7      | _        | ✝  | 7            |   |
|          | 103               | ├              | ╁  |    | ┝         | + | _      | t  | 1 |   | t   |        | _        | T  | 1            |   |
|          | 103               | $\vdash$       | ╁  | _  | H         | 1 |        | t  | - | _ | t   | $\neg$ | _        | ╁  | ┪.           |   |
|          | 104<br>.105       | ⊢              | ╁  | -  | H         | ┪ |        | †  |   | _ | †   |        |          | t  | ┪.           |   |
| · ·      | 106               | ⊢              | ٠  |    | ┝         | 1 | -      | t  | - | _ | †   |        | _        | ✝  | 1            |   |
|          | 107               | <del>  -</del> | ╁  | _  | ┞         | ┨ | _      | t  | _ | - | †   |        | <u> </u> | †  | 7            |   |
|          | 108               | ╁╌             | t  | _  | ╁         | 1 | _      | t  | - | Т | †   |        | -        | $^{\dagger}$                                 | 7            |   |
|          | 109               | ⊢              | t  |    | ┝         | - | _      | t  | _ | Н | †   | _      | H        | t  | ┪            |   |
|          | 110               | ╀              | +  | _  | t         | - |        | †  | _ | - | +   |        | <u> </u> | +  | 7            |   |
|          | 111               | ╁╴             | t  | _  | ╁╴        | - | ┢      | †  | _ | ┪ | †   |        | 1        | +  | -            |   |
|          | 112               | ╁              | t  |    | t         | _ | -      | t  | _ | 1 | 7   |        | ┢        | +  | ヿ            |   |
|          | 112<br>113        | 十              | +  | -  | ╁         | _ | ┢      | †  | - | Η | 7   |        |          | †  | 7            |   |
|          | 114               | †              | †  | _  | t         |   | 1      | †  | _ | 1 | 1   |        | 1        | 1  | $\exists$    |   |
| $\vdash$ | 114<br>115        | 十              | †  |    | t         |   | Γ      | 1  | _ | Τ | 1   | _      | Ī        | J  | $\Box$       |   |
| $\vdash$ | 116               | T              | 1  | _  | T         |   | Γ      | 1  | _ |   | ]   |        |          | I  | _]           |   |
|          | 117               | T              | 1  |    | I         |   |        | I  |   | L |     |        | 1        | 1  | 4            |   |
|          | 118               | $\mathbb{L}$   | 1  |    | 1         | _ | L      | 1  |   | Ļ | 4   |        | :        | $\perp$                                      | _            |   |
|          | 119               | !_             | -  |    | 1         | _ | !      |    | _ | 1 | - : |        |          |  |              |   |
| L        | 120               | 1              | 4  | _  | 4         |   | ┞      | 4  | _ | 1 | 4   | _      | ÷        | +  | $\dashv$     |   |
|          | 121               | 4-             | 4  | _  | +         | _ | ╀      | 4  | _ | ╀ | ᅱ   |        | ╀        | +  | $\dashv$     |   |
|          | 122               | +              | 4  | _  | +         | _ | ╀      | +  | _ | ╀ | 4   | _      | ╁        | +  | $\dashv$     |   |
| <u> </u> | 122<br>123<br>124 | +              | -  | _  | +         |   | ╁╌     | 1  | _ | + | -   | ·      | +        | 7  | ㅓ            |   |
| <u> </u> | 125               | +              | ┨  | -  | $\dagger$ | _ | ╁      | 1  |   | † |     | Т      | †        | 7  | 7            |   |
| $\vdash$ | 125               | ╁              | 1  | _  | †         | _ | †      | 1  | _ | † |     | T      | 1        | 1  |              |   |
| <b></b>  | 127               | 十              |    |    | 1         |   | 1      |    |   | T | _   |        | I        |  |              |   |
|          | 128<br>128<br>128 | 亣              |    |    |           |   | Ι      |    |   | 1 |     | L      | 1        | 4  | _            | ĺ |
|          | 129               | $\mathbf{I}$   |    |    |           | _ | L      |    | Ŀ | 1 | _   | L      | 4        | 4  | _            |   |
|          | 130               | $\Pi$          |    | Ш  |           | _ | 1      |    | L | 4 |     | L      | 4        | -  |              | l |
|          | 130               |                |    | L  | _         |   | 1      | _  | L | 4 | _   | L      | 4        | 4  |              | l |
|          | 132               | 2              |    | L  | _         | _ | 1      | _  | L | 4 | _   | ┞      | 4        | _  |              | ł |
|          | 133               | 3              |    | L  | 4         |   | 4      |    | L | 4 | _   | ╀      | +        |  | -            | ł |
| L        | 13:<br>13:        | 1              |    | L  | _         | _ | 4      | _  | ┞ | 4 | _   | ╀      | +        | _  | -            | 1 |
| <u> </u> | 13                | 54             | _  | L  | 4         | - | 4      |    | ╀ | - | _   | ╀      | ┨        |  | ├─           | 1 |
| 1_       | 130               | 5              | _  | ╀  | -         | - | ╁      | _  | ╁ | ┥ | _   | +      | +        | _  | <del> </del> | 1 |
| ļ        | 13<br>13          | $^{+}$         | _  | t  | $\dashv$  | - | +      | -  | ╁ | 1 |     | t      | 7        | _  | 一            | 1 |
| $\vdash$ | 13                | 計              | -  | t  | _         | ┝ | +      | _  | t | 7 | _   | t      | 7        |  |              | 1 |
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|          | 14                |                | _  | t  | _         | Г | 7      |    | I |   |     | 1      |          |  | 1            | 4 |
|          | 14                | 2              |    | Ī  |           |   | $\Box$ | _  |   |   | L   | 4      | _        | _  | 1            | 4 |
|          | 14                | 3              | _  | 1  | _         | L | ┙      | _  | 1 |   | L   | 4      |          | <u>.                                    </u> | ╀-           | 4 |
|          | 14                |                |    | 1  | _         | L | 4      |    | 1 |   | -   | 4      | 4        | _  | ╀            | 4 |
| Ŀ        | 14                |                | _  | 4  |           | L | 4      | _  | 4 | _ | L   | +      | _        | ┝  | ╀            | ᅥ |
| <u> </u> | 14                |                | _  | 4  |           | 1 | 4      | _  | + | _ | -   | +      | لن       | ⊢  | +            | ᅥ |
| <u> </u> | 14                |                | _  | 4  | _         | 1 | -1     | _  | + | _ | ┨╴  | 4      | _        | $\vdash$                                     | 十            | + |
| 1        | 14                |                | _  | 4  |           | + | 4      | -  | + | _ | ┞   | ┨      |          | -  | 十            | _ |
| -        | 14                |                | -  | 4  | _         | + | 4      | -  | + |   | ╁   | +      |          | $\vdash$                                     | +            | _ |
| _        | 15                | ַעַנ           | Ц. | _1 | _         | ı | _      | L- |   | _ | _   | 1      | _        |  |              | _ |
|          |                   |                | _  | _  |           | _ | _      | _  | _ |   | _   | _      | _        |  |              | _ |